	Application No.	Applicant(s)
Notice of Allowability	10/810,213	SAKAI ET AL.
	Examiner	Art Unit
	Matthew C. Sams	2617
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in i) or other appropriate commu RIGHTS. This application is s	this application. If not included inication will be mailed in due course. THIS
1. This communication is responsive to <u>10/26/2007</u> .		
2. The allowed claim(s) is/are <u>1-5</u> .		
3. ☑ Acknowledgment is made of a claim for foreign priority u a) ☑ All b) ☐ Some* c) ☐ None of the:		or (f).
 Certified copies of the priority documents hav 		
Certified copies of the priority documents have		
Copies of the certified copies of the priority do	ocuments have been received	I in this national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:	•	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") mu	ist be submitted.	
(a) ☐ including changes required by the Notice of Draftsper		(PTO-948) attached
1) hereto or 2) to Paper No./Mail Date	· · · · · · · · · · · · · · · · · · ·	,
(b) including changes required by the attached Examiner Paper No./Mail Date	_	in the Office action of
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in		
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	osit of BIOLOGICAL MATE FOR THE DEPOSIT OF BIO	ERIAL must be submitted. Note the PLOGICAL MATERIAL.
		•
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 Notice of Inf	ormal Patent Application
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)		immary (PTO-413),
•	Paper No./I	Mail Date Amendment/Comment
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. L Examiner's	Amendment/Comment
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛭 Examiner's	Statement of Reasons for Allowance
or biological material	9. 🗌 Other	<u>.</u>

10/810,213 Art Unit: 2617

Allowable Subject Matter

1. Claims 1-5 are allowed.

Examiner's Statement of Reasons for Allowance

2. The following is a statement of reasons for the indication of allowable subject matter:

Applicant's invention is drawn to a folding mechanism comprising:

- A fixed member having a plurality of fixed cams disposed on a side face of the fixed member
- A movable member arranged for rotation with respect to the fixed member having a plurality of movable cams disposed on a side face of the movable member in confronting relation with the fixed cams, the movable cam being formed of a protruded portion and sloped portions extended to the left and right
- A spring for urging the movable member or the fixed member such that the movable cams and the fixed cams are brought into resilient contact with each other
- A first set of the movable and fixed cams forming an inner camming unit
- A second set of the movable and fixed cams form an outer camming unit positioned circumferentially around the inner camming unit
- The movable member and the plurality of movable cams are formed solidly

10/810,213 Art Unit: 2617

- When the movable cam opens over 180° from a closed position, the fixed cam is held in resilient contact with the sloped portion of the movable cam so that a further force is applied to open the movable cam
- Each of the plurality of movable cams rotates from a partially open position to a predetermined angle more than 180° from the partially open position without the maximum height of the fixed cams reaching a maximum height of the respective movable cams
- 3. Applicant's independent claims 1 and 3 each recite, *inter alia*, a folding mechanism comprising a fixed member with a plurality of cams and a rotationally movable member having a plurality of movable cams held in frictional contact with the fixed member by a spring, wherein the first set of movable and fixed cams are at an inner position compared to the second set of movable and fixed cams that are positioned in an outer circumferential position, wherein the movable member and plurality of cams are formed as one piece, when the movable cam opens over 180° from a closed position, the fixed cam is held in contact by a sloped portion of the movable cam and each of the plurality of movable cams are required to reach the maximum height of the fixed cams just after opening from a closed position and won't reach the maximum height again until opened more than 180°. Applicant's independent claims disclose a particular combination that is neither suggested nor taught in the prior art.
- 4. The closed cited art of record, JP 11-50735 and Nikko Ind. Corp. (2000-192939) both differ from the claimed invention by not teaching each of the plurality of movable

Application/Control Number:

10/810,213 Art Unit: 2617

cams rotates from a partially open position to a predetermined angle more than 180° from the partially open position without the maximum height of the fixed cams reaching a maximum height of the respective movable cams.

- 5. Accordingly, Applicant's claims are allowed for these reasons and for the reasons recited by the Applicant in the Amendments filed on 11/16/2006, 6/8/2007, 10/26/2007 and the telephone interview on 8/20/2007.
- 6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew C. Sams whose telephone number is (571)272-8099. The examiner can normally be reached on M-F 7:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lester Kincaid can be reached on (571)272-7922. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

8. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

Application/Control Number:

10/810,213 Art Unit: 2617 Page 5

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MCS 12/8/2007

LESTER G. KINCAID

EUPERWISORY PRIMARY EXAMINER